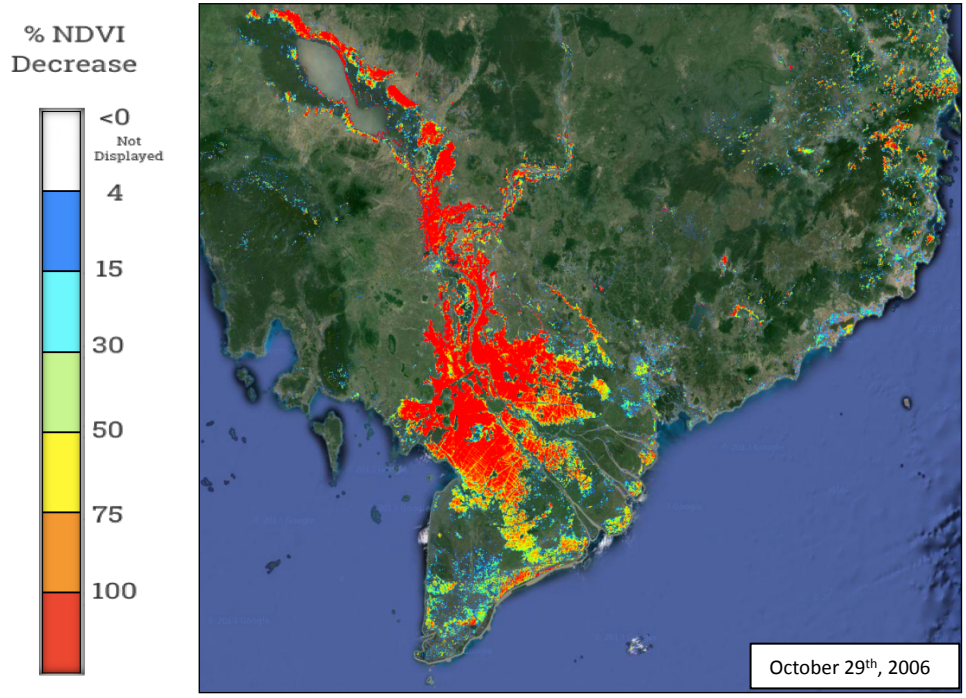
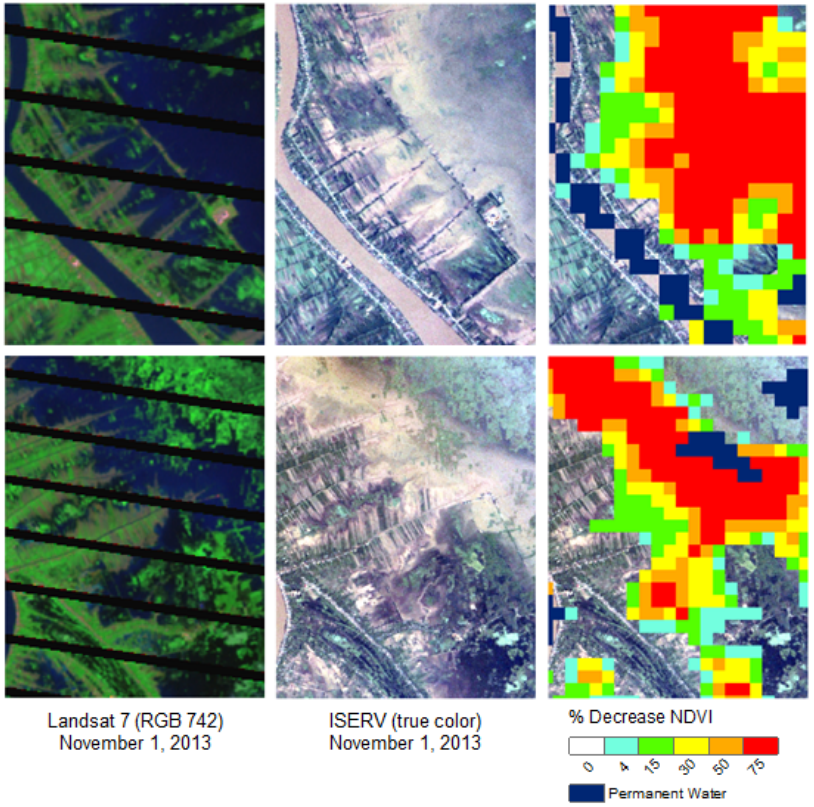
Improved Hydrologic Decision Support for the Lower Mekong River Basin Through Integrated Remote Sensing and Modeling

John D. Bolten, Hydrological Sciences Lab , NASA GSFC





This project will use an established land surface model – Soil Water Assessment Tool (SWAT) along with NASA satellite data products and in-situ observations for water management decisions in the Lower Mekong River Basin. The specific tasks include using NASA satellite precipitation and vegetation as inputs to the SWAT model and use of satellite soil moisture and evapotranspiration for validation. We will also use the in-situ discharge measurements in the Lower Mekong River Basin for calibration and validation purposes. Final optimized products will be dispersed through the development of the SERVIR Mekong Observation Repository (SMOR).